PATENT COOPERATION TREATY

From the NTERNATIONAL SEARCHING AUTHO	ORITY .	KAHON IKE	REC'D 1 8 APR 2006
To: HARRY F. SMITH HARRINGTON & SMITH, LLP 4 RESEARCH DRIVE		· WR	PCT TTEN OPINION OF THE
SHELTON, CT 06484-6212			ONAL SEARCHING AUTHORITY
· .			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	12 APR 2006
Applicant' s or agent' s file reference		FOR FURTHER	ACTION See paragraph 2 below
873.0168.U1(WO)	International filing date	<u> </u>	Priority date (day/month/year)
International application No. PCT/US05/01428	14 January 2005 (14.01		15 January 2004 (15.01.2004)
International Patent Classification (IPC) o			
IPC: H04M 1/66 ; H04M 1/68; H04M USPC: 455/410	1 3/00		
Applicant		•	
NOKIA CORPORATION			
1. This opinion contains indications rela	ating to the following iter	os:	
Box No. I Basis of the	opinion	•	
Box No. II Priority			
Box No. III Non-establis	shment of opinion with re	gard to novelty, inve	entive step and industrial applicability
Box No. IV Lack of unit	ty of invention		•
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			to novelty, inventive step or industrial tatement
Box No. VI Certain docu	ıments cited	•	
Box No. VII Certain defe	cts in the international ap	plication	•
Box No. VIII Certain obse	ervations on the internation	onal application	
2. FURTHER ACTION			
International Preliminary Examining	g Authority ("IPEA") e he IPBA and the chosen	xcept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) dered.
IPEA a written reply together, whe mailing of Form PCT/ISA/220 or beautiful and the mailing of Form PCT/ISA/20 or beautiful and the mailin	ere appropriate, with an fore the expiration of 22	iendments, before tl	PBA, the applicant is invited to submit to the the expiration of 3 months from the date of cority date, whichever expires later.
For further options, see Form PCT/I	SA/220.		
3. For further details, see notes to Form	n PCT/ISA/220.		1
Name and mailing address of the ISA/ U		etion of this	Authorized officer
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	opinion	-	Ayaz R Sheikh
P.O. Box 1450 Alexandria, Virginia 22313-1450 Received No. 4571) 273-3201	23 February 20	006 (23.02.2006)	Telephone No. 703-305-0900

Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.

PCT/US05/01428

Box No	o. I Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of:
\boxtimes	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With claims	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
ъ.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3. 🔲	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in
	the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	ional comments:

International application No. PCT/US05/01428

1. Statement			
Novelty (N)	Claims	4, 10, 13, 33-35 and 39	YES
Novely (1)		1-3, 5-9, 11, 12, 14-32, 36-38 and 40-50	NO
Inventive step (IS)	Claims	NONE	YES
inventive step (13)	Claims		_NO
Industrial applicability (IA)	Claims	1-50	YES
industrial applications (113)	Claims		_NO
2. Citations and explanations:			
Please See Continuation Sheet		·	
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Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US05/01428

Supplemental	l Box			
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V. 2. Citations and Explanations:

1. Claims 1-3, 5-9, 11, 12, 14-32, 36-38 and 40-50 lack novelty under PCT Article 33(2) as being anticipated by Ala-Laurila (Patent Number: US 6587680 A1).

As per claim 1, 24, 25, 27 - 29, 47 and 49, Ala-Laurila teaches a method performed on a first server for communicating with a mobile station in order for the mobile station to update a security-related parameter, comprising: determining that a request expressed in a first protocol has been made by a second server for updating the security-related parameter on the mobile station (Ala-Laurila: Figure 2, Column 10 Line 9 - 10 and Column 5 Line 43 - 51); and in response to determining, packaging the request in a message expressed in a second protocol and communicating the message to the mobile station (Ala-Laurila: Figure 2, Column 5 Line 30 - 36).

As per claim 2, Ala-Laurila teaches the first protocol comprises a signaling protocol and the second protocol comprises an internet protocol (Ala-Laurila: Column 2 Line 62 and Column 1 Line 63 - 64).

As per claim 3 and 32, Ala-Laurila teaches the signaling protocol further comprises an over-the-air management protocol (Ala-Laurila: Column 5 Line 46 - 51), and wherein the internet protocol further comprises an over-the-air internet protocol (Ala-Laurila: Column 1 Line 63 - 64).

As per claim 5 and 30, Ala-Laurila teaches determining that the mobile station has updated the security-related parameter, and communicating a response expressed in the second protocol to the second server, the response indicating that the mobile station has updated the security-related parameter (Ala-Laurila: Column 10 Line 10 - 66).

As per claim 6, 7 and 50, Ala-Laurila teaches the first and second protocols comprise different transport protocols; the request is further expressed in a first management protocol; and packaging further comprises packaging the request in the message, where the message is expressed in a second management protocol in addition to the second protocol (Ala-Laurila: Figure 2, Column 10 Line 9 - 10 and Column 5 Line 43 - 51).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

As per claim 8 - 9 and 37 - 38, Ala-Laurila teaches the security-related parameter comprises an authentication key (Ala-Laurila: Column 4 Line 38 - 39).

As per claim 11 and 41, Ala-Laurila teaches communicating at least one additional message expressed in the second protocol to the mobile station, the at least one additional message comprising at least one command defined to cause the mobile station to determine the security-related parameter (Ala-Laurila: Column 10 Line 10 - 66).

As per claim 12, 16, 20, 22 and 42, Ala-Laurila teaches communicating a first message and a second message expressed in the second protocol with the mobile station, the first message comprising a first command defined to cause the mobile station to compute a first value, and the second message comprising a second value and a second command defined to cause the mobile station to compute the security-related parameter by using the first and second values (Ala-Laurila: Figure 2 & 7).

As per claim 14 and 40, Ala-Laurila teaches receiving an additional message comprising at least one parameter, the at least one parameter indicating 15 whether or not the mobile station supports a certain provisioning protocol (Ala-Laurila: Figure 5A).

As per claim 15, Ala-Laurila teaches in response to the at least one parameter indicating that the mobile station does support the certain provisioning protocol, performing a first collection of steps, and in response to the at least one parameter indicating that the mobile station does not support the certain provisioning protocol, performing a second collection of steps (Ala-Laurila: Figure 3).

As per claim 17 - 19, 21, 23 and 44, Ala-Laurila teaches receiving a third message expressed in the second protocol, the third message comprising an indication that the first value has been computed by the mobile station; and computing a second value further comprises computing, in response to the third message, the second value (Ala-Laurila: Figure 7).

As per claim 36, Ala-Laurila teaches the first protocol comprises a transport protocol; and therequest defines a trigger to cause the mobile station to begin operations to update the security-related parameter (Ala-Laurila: Column 10 Line 10 - 66).

As per claim 43, Ala-Laurila teaches communicating a second message expressed in the first protocol to the server, the second message comprising an indication that the first value has been computed (Ala-Laurila: Figure 2 & 7).

As per claim 45 - 46 and 48, Ala-Laurila teaches one or more of performing at least one first operation and performing at least one second operation uses at least one node in a management tree to store information (Ala-Laurila: Figure 1).

2. Claims 4 and 33 - 35 lack an inventive step under PCT Article 33(3) as being obvious Ala-Laurila (Patent Number: US 6587680 A1), in view of Nakazawa et al. (Publication Number: US 2003/0069008 A1).

As per claim 4 and 33 - 35, Ala-Laurila does not teach the over-the-air management protocol comprises an IS-683 management protocol, and wherein the over-the-air internet protocol further comprises an Internet Protocol (IP)-based Over-The-Air (IOTA) Device Management protocol.

Nakazawa teaches the over-the-air management protocol comprises an IS-683 management protocol, and wherein the over-the-air internet protocol further comprises an Internet Protocol (IP)-based Over-The-Air (IOTA) Device Management protocol (Nakazawa: Para [0006]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Nakazawa within the system of Ala-Laurila because Nakazawa teaches downloading system information on a mobile communication systm (Nakazawa: Para [0013]).

3. Claims 10, 13 and 39 lack an inventive step under PCT Article 33(3) as being obvious Ala-Laurila (Patent Number: US 6587680 A1), in view of Hsu et al. (Patent Number: US 6587684 B1).

As per claim 10 and 39, Ala-Laurila does not teach the security-related parameter comprises one of an authentication key or a security key; and the security-related parameter is defined by a Code-Division Multiple Access (CDMA) standard.

Hsu teaches the security-related parameter comprises one of an authentication key or a security key; and the security-related parameter is defined by a Code-Division Multiple Access (CDMA) standard (Hsu: Column 2 Line 8 - 30). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine

the teaching of Hsu within the system of Ala-Laurila because Hsu teaches downloading software to portable wireless digital telephones (Hsu: Column 1 Line 8 - 10).

As per claim 13, Ala-Laurila does not teach the message is a first message; and the method further comprises: receiving a second message comprising an indication of a version of the security-related parameter, the second message expressed in the second protocol; and communicating a third message, expressed in the first protocol and comprising the indication, to the second server.

Hsu teaches the message is a first message; and the method further comprises: receiving a second message comprising an indication of a version of the security-related parameter, the second message expressed in the second protocol; and communicating a third

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	Supplemental Box In case the space in any of the preceding boxes is not sufficient.
	message, expressed in the first protocol and comprising the indication, to the second server (Hsu: Column 19 Line 47 - 49). Same rationale of combination applies herein as above in rejecting the claim 10.
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PATENT COOPERATION TREATY

From the	HODITY		1 0 AFR 2000
To: HARRY F. SMITH HARRINGTON & SMITH, LLP 4 RESEARCH DRIVE SHELTON, CT 06484-6212			PCT ITTEN OPINION OF THE
		INTERNATI	ONAL SEARCHING AUTHORITY
	•		(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	12 APR 2006
Applicant' s or agent' s file reference		FOR FURTHER	ACTION See paragraph 2 below
873.0168.U1(WO)			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US05/01428	14 January 2005 (14.01		15 January 2004 (15.01.2004)
International Patent Classification (IPC	•	anon and IPC	
IPC: H04M 1/66; H04M 1/68; H04M 1	4M 3/00		
Applicant			
NOKIA CORPORATION			
1. This opinion contains indications r	relating to the following ite	ms:	•
Box No. I Basis of t	he opinion	•	
Box No. II Priority			
Box No. III Non-estab	olishment of opinion with r	egard to novelty, inv	entive step and industrial applicability
Box No. IV Lack of unity of invention			to the second second
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain de	ocuments cited		
Box No. VII Certain de	efects in the international a	pplication	•
Box No. VIII Certain of	bservations on the internati	onal application	
2. FURTHER ACTION			
International Preliminary Examin	ing Authority ("IPEA") on the IPEA and the chosen	except that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an he International Bureau under Rule 66.1 bis(b) idered.
IPEA a written reply together, we mailing of Form PCT/ISA/220 or	vhere appropriate, with ar before the expiration of 22	nendments, before t	PBA, the applicant is invited to submit to the the expiration of 3 months from the date of iority date, whichever expires later.
For further options, see Form PC	THOM ZEO.		
3. For further details, see notes to Po	orm PCT/ISA/220.		1
Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US	US Date of complopinion	etion of this	Authorized officer
Commissioner for Patents P.O. Box 1450 23 Pebruary 2006 (23.02.2006)			Ayaz R Sheikh
Alexandria, Virginia 22313-1450 Pacsimile No. (571) 273-3201 Form PCT/ISA/237 (cover sheet) (April			Pelephone No. 703-305-0900
LOTH LC 1/194/79 / (COACL SHEER) (While	2000)		

International application No.	
PCT/US05/01428	

Box N	o. I Basis of this opinion	
1. With	regard to the language, this opinion has been established on the basis of:	
\boxtimes	the international application in the language in which it was filed	
	a translation of the international application into, which is the language of a tinternational search (Rules 12.3(a) and 23.1(b)).	ranslation furnished for the purposes of
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the internated invention, this opinion has been established on the basis of:	tional application and necessary to the
a.	type of material	
	a sequence listing	
	table(s) related to the sequence listing	•
ъ.	format of material	
	on paper	
	in electronic form	
c.	time of filing/furnishing	
	contained in the international application as filed.	•
	filed together with the international application in electronic form.	
	furnished subsequently to this Authority for the purposes of search.	•
		• • •
3. 🗌	In addition, in the case that more than one version or copy of a sequence listing a filed or furnished, the required statements that the information in the subsequent of the application as filed or does not go beyond the application as filed, as appropriate	r additional copies is identical to that in
4. Addit	ional comments:	
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International application No. PCT/US05/01428

1. Statement			
Novelty (N)	Claims	4, 10, 13, 33-35 and 39	YES
•	Claims	1-3, 5-9, 11, 12, 14-32, 36-38 and 40-50	NO
Inventive step (IS)	Claims	NONE	YES
mvenave step (to)	Claims		NO
Industrial applicability (IA)	Claims	1-50	YES
madelini appronones (a.s.)	Claims		NO
2. Civilian and ambandana			
Citations and explanations: Please See Continuation Sheet		•	
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International application No. PCT/US05/01428

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V. 2. Citations and Explanations:

1. Claims 1-3, 5-9, 11, 12, 14-32, 36-38 and 40-50 lack novelty under PCT Article 33(2) as being anticipated by Ala-Laurila (Patent Number: US 6587680 A1).

As per claim 1, 24, 25, 27 - 29, 47 and 49, Ala-Laurila teaches a method performed on a first server for communicating with a mobile station in order for the mobile station to update a security-related parameter, comprising: determining that a request expressed in a first protocol has been made by a second server for updating the security-related parameter on the mobile station (Ala-Laurila: Figure 2, Column 10 Line 9 - 10 and Column 5 Line 43 - 51); and in response to determining, packaging the request in a message expressed in a second protocol and communicating the message to the mobile station (Ala-Laurila: Figure 2, Column 5 Line 30 - 36).

As per claim 2, Ala-Laurila teaches the first protocol comprises a signaling protocol and the second protocol comprises an internet protocol (Ala-Laurila: Column 2 Line 62 and Column 1 Line 63 - 64).

As per claim 3 and 32, Ala-Laurila teaches the signaling protocol further comprises an over-the-air management protocol (Ala-Laurila: Column 5 Line 46 - 51), and wherein the internet protocol further comprises an over-the-air internet protocol (Ala-Laurila: Column 1 Line 63 - 64).

As per claim 5 and 30, Ala-Laurila teaches determining that the mobile station has updated the security-related parameter, and communicating a response expressed in the second protocol to the second server, the response indicating that the mobile station has updated the security-related parameter (Ala-Laurila: Column 10 Line 10 - 66).

As per claim 6, 7 and 50, Ala-Laurila teaches the first and second protocols comprise different transport protocols; the request is further expressed in a first management protocol; and packaging further comprises packaging the request in the message, where the message is expressed in a second management protocol in addition to the second protocol (Ala-Laurila: Figure 2, Column 10 Line 9 - 10 and Column 5 Line 43 - 51).

International application No. PCT/US05/01428

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

As per claim 8 - 9 and 37 - 38, Ala-Laurila teaches the security-related parameter comprises an authentication key (Ala-Laurila: Column 4 Line 38 - 39).

As per claim 11 and 41, Ala-Laurila teaches communicating at least one additional message expressed in the second protocol to the mobile station, the at least one additional message comprising at least one command defined to cause the mobile station to determine the security-related parameter (Ala-Laurila: Column 10 Line 10 - 66).

As per claim 12, 16, 20, 22 and 42, Ala-Laurila teaches communicating a first message and a second message expressed in the second protocol with the mobile station, the first message comprising a first command defined to cause the mobile station to compute a first value, and the second message comprising a second value and a second command defined to cause the mobile station to compute the security-related parameter by using the first and second values (Ala-Laurila: Figure 2 & 7).

As per claim 14 and 40, Ala-Laurila teaches receiving an additional message comprising at least one parameter, the at least one parameter indicating 15 whether or not the mobile station supports a certain provisioning protocol (Ala-Laurila: Figure 5A).

As per claim 15, Ala-Laurila teaches in response to the at least one parameter indicating that the mobile station does support the certain provisioning protocol, performing a first collection of steps, and in response to the at least one parameter indicating that the mobile station does not support the certain provisioning protocol, performing a second collection of steps (Ala-Laurila: Figure 3).

As per claim 17 - 19, 21, 23 and 44, Ala-Laurila teaches receiving a third message expressed in the second protocol, the third message comprising an indication that the first value has been computed by the mobile station; and computing a second value further comprises computing, in response to the third message, the second value (Ala-Laurila: Figure 7).

As per claim 36, Ala-Laurila teaches the first protocol comprises a transport protocol; and therequestdefines atrigger to cause the mobile station to begin operations to update the security-related parameter (Ala-Laurila: Column 10 Line 10 - 66).

As per claim 43, Ala-Laurila teaches communicating a second message expressed in the first protocol to the server, the second message comprising an indication that the first value has been computed (Ala-Laurila: Figure 2 & 7).

As per claim 45 - 46 and 48, Ala-Laurila teaches one or more of performing at least one first operation and performing at least one second operation uses at least one node in a management tree to store information (Ala-Laurila: Figure 1).

2. Claims 4 and 33 - 35 lack an inventive step under PCT Article 33(3) as being obvious Ala-Laurila (Patent Number: US 6587680 A1), in view of Nakazawa et al. (Publication Number: US 2003/0069008 A1).

As per claim 4 and 33 - 35, Ala-Laurila does not teach the over-the-air management protocol comprises an IS-683 management protocol, and wherein the over-the-air internet protocol further comprises an Internet Protocol (IP)-based Over-The-Air (IOTA) Device Management protocol.

Nakazawa teaches the over-the-air management protocol comprises an IS-683 management protocol, and wherein the over-the-air internet protocol further comprises an Internet Protocol (IP)-based Over-The-Air (IOTA) Device Management protocol (Nakazawa: Para [0006]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Nakazawa within the system of Ala-Laurila because Nakazawa teaches downloading system information on a mobile communication systm (Nakazawa: Para [0013]).

3. Claims 10, 13 and 39 lack an inventive step under PCT Article 33(3) as being obvious Ala-Laurila (Patent Number: US 6587680 A1), in view of Hsu et al. (Patent Number: US 6587684 B1).

As per claim 10 and 39, Ala-Laurila does not teach the security-related parameter comprises one of an authentication key or a security key; and the security-related parameter is defined by a Code-Division Multiple Access (CDMA) standard.

Hsu teaches the security-related parameter comprises one of an authentication key or a security key; and the security-related parameter is defined by a Code-Division Multiple Access (CDMA) standard (Hsu: Column 2 Line 8 - 30).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Hsu within the system of Ala-Laurila because Hsu teaches downloading software to portable wireless digital

telephones (Hsu: Column 1 Line 8 - 10),

As per claim 13, Ala-Laurila does not teach the message is a first message; and the method further comprises; receiving a second message comprising an indication of a version of the security-related parameter, the second message expressed in the second protocol; and communicating a third message, expressed in the first protocol and comprising the indication, to the second server.

Hsu teaches the message is a first message; and the method further comprises: receiving a second message comprising an indication of a version of the security-related parameter, the second message expressed in the second protocol; and communicating a third

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International application No. PCT/US05/01428

INTERNATIONAL SEARCHING AUTHORITY	
Supplemental Box In case the space in any of the preceding boxes is not sufficient.	
message, expressed in the first protocol and comprising the indication, to the second Same rationale of combination applies herein as above in rejecting	server (Hsu: Column 19 Line 47 - 49). g the claim 10.
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